

CGS-BL

Strong acid black cation resin, styrene/DVB standard crosslinked gel, sodium form

ResinTech CGS-BL is a residential grade, dark-colored strong acid cation resin made from standard crosslinked gel in the sodium form. CGS-BL is Gold Seal Certified by the WQA for use in potable water. It is optimized for regeneration efficiency and high capacity. CGS-BL is intended for residential water softening of waters that do not contain significant chlorine residual and where potable water certification is required.



FEATURES & BENEFITS

- Residential softening applications
- Low color throw
- Superior physical stability
- Complies with US FDA regulations

APPLICATIONS

- Softening



Meets NSF/ANSI/CAN 61
REACH Registered

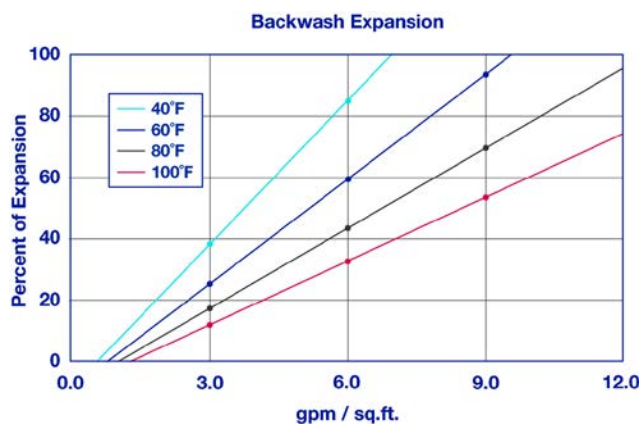
Kosher Certified
Halal Certified

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

CGS-BL

Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	90
Polymer Type	Gel	Uniformity	Gaussian
Ionic Form (as shipped)	Sodium (Na ⁺)	Uniformity Coefficient	1.60
Functional Group	Sulfonic Acid	Capacity (meq/mL)	1.80
Physical Form	Spherical Beads	Moisture Retention (%)	40 to 52
Particle Size US Mesh (µm)	16 (1190) to 50 (297)	Shipping Weight	49 - 51 lbs/cu.ft. (785 - 817 g/L)
< 50 mesh (300 µm) %	< 1%	Color	Dark Brown to Black
		Regenerable	Regenerable

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech CGS-BL as a function of flow rate at various temperatures.

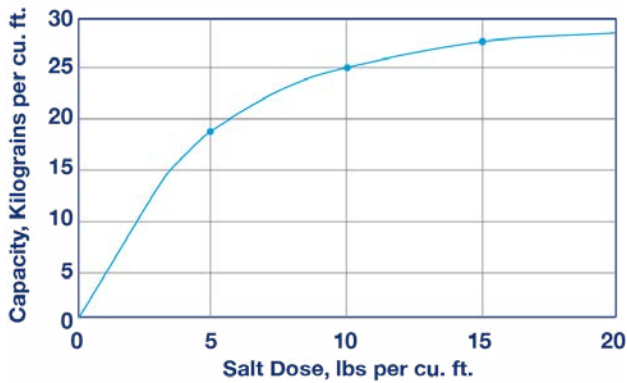
SUGGESTED OPERATING CONDITIONS

Maximum Temperature	250°F (121°C)	Operating pH Range	0 to 14
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	25 psi (172 kPa)	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)
Backwash Expansion (%)	25 to 50		



CAPACITY GRAPH 1

CGS-BL Softening Capacity

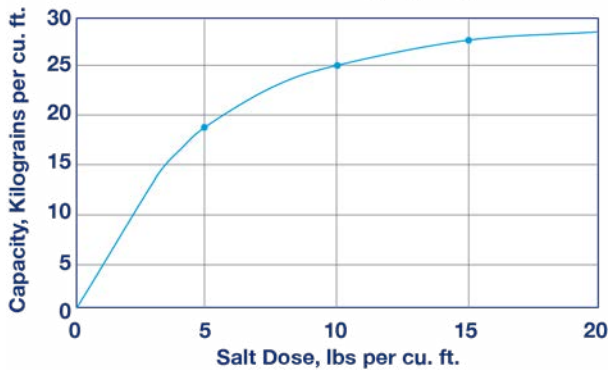


Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO₃, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

SOFTENING

ResinTech **CGS-BL** is a standard crosslinked cation resin optimized for residential and commercial applications. This type of resin is easier to regenerate than the higher crosslinked resins. **CGS-BL** has marginal resistance to chlorine and other oxidants and is not ideal for high temperature and other high stress applications.

CGS-BL Softening Capacity



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REGENERATION DETAILS

Salt Cycle (NaCl)	10 to 15%	Displacement Flow Rate	Same as dilution water
Regenerant Level	4-15 lbs/cu.ft. (64.1-240.3 g/L)	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.5-1.5 gpm/cu.ft. (4-12 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	> 20 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

PACKAGING

Standard

1 cu.ft. Bag | 42 cu.ft. Supersack
 5 cu.ft. Drum | 7 cu.ft. Drum

Metric

140L Drum | 200L Drum

SAFETY DATA SHEETS (SDS)

Safety Data Sheets (SDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

